



1/5 c & c.

17301 Ridgeland Avenue, Tinley Park, Illinois 60477-3091 • 708-532-1800 • FAX: 708-614-8344



May 3, 2005

Mr. Henry Randall  
United States Patent & Trademark Office  
Decisions and Certificates of Correction Branch  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Certificate**  
**MAY 13 2005**  
**of Correction**

Patent No.: 6866541  
Inventor(s): Jed M. Barker, et al.  
Issued: 03/15/2005  
Title: Angled Patch Panel with Cable Support Bar for Network Cable Rack  
Our File No.: LCB373

Dear Mr. Randall:

Further to our telephone conversation regarding the issuance of a Certificate of Correction under 37 CFR 1.322, enclosed is a copy of an Office Action mailed March 5, 2003. The Notice of References Cited, attached to the Office Action, includes U.S. Patent Nos. 6,240,234 and 6,350,148. Accordingly, please issue a Certificate of Correction showing the above-identified patents listed in Section (56) References Cited. A copy of Form PTO/SB/44 is attached.

If you have any questions, please call me at (708) 532-1800 ext. 1302.

Very truly yours,

PANDUIT CORP.

*Christopher S. Clancy*  
Christopher S. Clancy

CSC/mla  
Enclosures

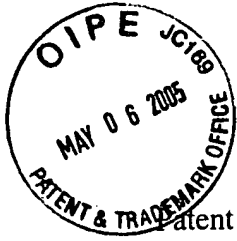
RECEIVED

APR 9

PANDUIT LEGAL DEPT.



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY OF COMMERCE AND  
COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, DC 20231



Patent No. : 6866541  
Inventor(s) : Jed M. Barker, et al.  
Issued : 3/15/05  
Title : ANGLED PATCH PANEL WITH CABLE SUPPORT BAR FOR  
NETWORK CABLE RACKS  
Atty.doc./File No.

#### Request for Certificates of Correction

Consideration has been given to your request for the issuance of a Certificate of Correction, for the above – identified patent under the provisions of CFR 1.322.

Inspection of the application for the patent reveals the references is printed in accordance with the record there are no documents showing theses numbers 6,240,234 and 6,350,148. Please show supporting documents for those numbers. Therefore being no fault on the Patent and Trademark Office, It has no authority to issue a certificate of correction under the provision of 1.322.

In view of the forgoing, your request in this matter, is hereby denied. However, a certificate of correction will be issued to correct the remaining error(s) noted in your request.

Future written correspondence concerning this matter should be filed and directed to Decisions & Certificates of Correction Branch.

Henry Randall  
Cecelia Newman  
Decisions & Certificates  
of Correction Branch  
(703) 308-9390 Ext. 108

Panduit Corp. Legal Dept.  
17301 South Ridgeland Avenue  
Tinley Park, IL 60477

HR/CBN



AM  
CSC

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/916,923	07/26/2001	Jed M. Barker	LCB 373	8769

7590 03/05/2003

Robert A. McCann, Esq.  
Panduit Corp.  
Legal Department -- TP12  
17301 S. Ridgeland Avenue  
Tinley Park, IL 60477

EXAMINER

NGUYEN, SON V

ART UNIT PAPER NUMBER

2839

DATE MAILED: 03/05/2003

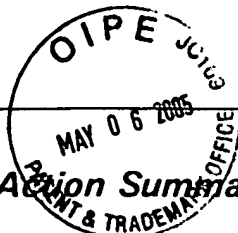
Please find below and/or attached an Office communication concerning this application or proceeding.

4-5-03  
5-5-03  
8-5-03

**DUE DATE**

6-5-2003

**Office Action Summary**



Application No.  
**09/916,923**

Applicant(s)  
**Barker et al.**

Examiner  
**Son Nguyen**

Art Unit  
**2839**



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_\_
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on Jul 26, 2001 is/are a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some\* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 2 6) ☐ Other:



Application/Control Number: 09/916,923

Page 2

Art Unit: 2839

## DETAILED ACTION

### *Specification*

1. The abstract of the disclosure is objected to because it contains more than 150 words.

The abstract of the disclosure should be a brief narrative of the disclosure as a whole in a single paragraph of 150 words or less commencing on a separate sheet following the claims. Correction is required.

### *Claim Objections*

2. Claims 1-29 are objected to because of the following informalities:

In claims 1 and 20, last line, there is no antecedent basis for "the patch panel frame."

In claim 2, it appears that the limitation "the plurality of cable connectors when mounted being oriented to have rear surfaces thereof" is unclear as to what the connectors are mounted and oriented thereon. Applicant should clarify the phrase "when mounted being oriented."

In claim 12, line 2, it appears that "each angled relative to the other" should be changed to --each angled panel section relative to the other--.

Claims 3-11, 13-19 and 21-29 have the defects of claims 1 and 20.

Appropriate correction is required.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Art Unit: 2839

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-5, 12-15 and 20-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Puetz (US 5,734,776).

The claimed invention reads on Puetz as follows:

Regarding claims 1 and 20, Puetz discloses a patch panel [50, 50', figures 1-4] mountable to flanges [32, 34, figure 2] of a splice tray support [30] secured in an enclosure reads on applicant's a network rack having two rails spaced a predetermined distance from each other, each rail including spaced mounting opening, the patch panel comprising:

- a frame [50a', 50b', figure 1] forming a central section and having a longitudinal width sized to fit within the rack (the closure), a predetermined height, a front side [100', figure 4], and a rear side [102', figure 4];

- rack mounting plates [52', 54', figures 2 and 4] provided on opposite longitudinal ends of the central section; and

- wherein the central section is angled outwardly in an inverted V-shape with respect to the support [30], the central section having mountable thereon a plurality of cable connectors [64, 68, figure 4] that receive cabling [70, 66] on the front and rear sides of the frame of the panel.

Regarding claims 2 and 21, Puetz discloses the plurality of cable connectors [64, 68] mounted to the frame of the panel, wherein the connectors being oriented to have rear surfaces

Art Unit: 2839

face a common axis of the central section at a dividing line [58', figure 4].

Regarding claims 3-4 and 22, Puetz discloses the frame includes a plurality of retainer brackets [60, figure 1] are positioned in a big opening [51] to formed a plurality of faceplate openings, each opening secured a plurality of adapters [62] reads on applicant's at least one faceplate opening, and at least two faceplate openings (one on each side of the common axis of the central section).

Regarding claims 5 and 23, Puetz discloses the plurality of adapters [62] read on applicant's at least one or two removable insert module(s) sized to fit within the at least one or two faceplate opening(s), the at least one movable removable insert module (adapter) containing at least one of the plurality of cables/connectors [70, 66].

Regarding claims 12-15 and 24-26, Puetz discloses the central section of the frame has two angled panel sections [50a', 50b'], each angled panel section relative to the other by an obtuse angle, the obtuse angle is about  $120^{\circ}$  and it reads on applicant claimed the obtuse angle is between  $90^{\circ}$ - $180^{\circ}$ , between  $100^{\circ}$ - $140^{\circ}$ , and between  $110^{\circ}$ - $130^{\circ}$ .

All the elements recited in the claims are read in the reference.

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2839

6. Claim 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Puetz in view of Ott et al. (US 5,945,633).

Puetz discloses the instant claimed invention as described above and including the cables are optical cables. However, Puetz does not disclose the at least one removable insert module is snap fittable to the at least one faceplate opening.

Ott et al. discloses adapter plate [92, figures 11A-11D] having snap latches [96] are snapped into recesses of a bracket [72, figure 8A, column 5, lines 58-63].

It would have been obvious to one having ordinary skill in the art at the time invention was made to modify the removable module (adapter) of Puetz to provide the snap latch as taught by Ott et al. for the purpose of facilitating the connection of the adaptor onto/into the panel or faceplate, as is well known in the art of the electrical connector.

7. Claims 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Puetz.

Puetz discloses the instant claimed invention as described above except for six faceplate openings are provided, three on each side of the common axis of the central section; each module receives twelve cable connectors; twelve faceplate openings are provided, six on each side of the common axis; and each module receives four cable connectors. It would have been an obvious matter of design choice to provide a number of faceplate openings and a number of connectors mounted thereon depends on the number of cables in the interconnecting system so that the panel can provide six faceplate openings, three on each side of the common axis of the central section; each module receives twelve cable connectors; or twelve faceplate openings, six on each side of



Art Unit: 2839

the common axis; and each module receives four cable connectors, as claimed, since such a modification would have involved a mere change in the size or quantity of a component. A change in quantity is generally recognized as being within the level of one of ordinary skill in the art.

8. Claims 16-17 and 28-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Puetz in view of Bartolutti et al. (US 6,350,148).

Puetz discloses the instant claimed invention as described above except for the two panel sections are the same length and the central section includes a flat centerpiece at the intersection of the two angled panel sections.

Bartolutti et al. teaches a telecommunications patch system [figure 2] comprising a rack controller [30] having flat center display [46] reads on applicant's frame forming a central section, the central section having the two panel sections are the same length and the central section includes a flat centerpiece at the intersection of the two angled panel sections.

It would have been obvious to one having ordinary skill in the art at the time invention was made to modify the shape of the central section of Puetz to provide the flat central piece and the two panel sections having the same length as taught by Bartolutti et al. for the purpose of facilitating the manufacture of the panel and providing even number of connectors mounted on the panel.

9. Claims 18-19 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Puetz in view of Falkenberg et al. (US 6,240,234).

Art Unit: 2839

Puetz discloses the instant claimed invention as described above except for a cable support bar mountable to the rear of the panel, the cable support bar includes a bar portion having a longitudinal width sized to fit within the rack, and the rack mounting plates at longitudinal ends of the bar portion, and the support bar mounted between the rack rails.

Falkenberg et al. teaches a cable support bar [100, figures 1 and 4A] having a longitudinal width sized to fit within a rack, and rack mounting plates [126, 128] formed at longitudinal ends of the bar portion, and the support bar mounted between rack rails [142].

It would have been obvious to one having ordinary skill in the art at the time invention was made to use the cable support bar as taught by Bartolutti et al. in the patch panel system of Puetz in order to facilitate the holding and retaining cables, as well known in the art of cables and electrical/optical connectors.

Puetz and Falkenberg et al. discloses the instant claimed invention described above except for the cable support bar mountable to the rear of the panel. It would have been an obvious matter of design choice to mount the cable support bar to the rear of the panel in order to facilitate the support of cables, since applicant has not disclosed that the cable support bar mountable to the rear of the panel solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with the mounting of the cable support bar to the rail disclosed in Falkenberg et al.

### ***Conclusion***

10. Any inquiry concerning this communication or earlier communications from the examiner

Art Unit: 2839

should be directed to Son Nguyen whose telephone number is (703) 308-8745.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild, can be reach on (703) 308-2710. The fax phone number for this Group is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1782.

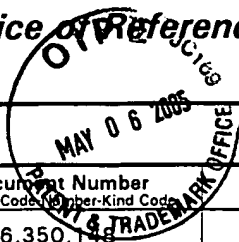
A handwritten signature in black ink, appearing to read "Son Nguyen".

Son Nguyen  
Examiner  
GAU: 2839

sn  
February 27, 2003

# Notice of References Cited

Application/Control No. <b>09/916,923</b>		Applicant(s)/Patent Under Reexam <b>Barker et al.</b>	
Examiner <b>Son Nguyen</b>		Art Unit <b>2839</b>	Page 1 of 1



## U.S. PATENT DOCUMENTS

	Document Number Country Code-Number-Kind Code	Date MM-YYYY <sup>1</sup>	Name	Classification <sup>2</sup>	
A	6,350,148	2/2002	Bartolutti et al.	439	489
B	6,240,234	5/2001	Falkenberg et al.	385	136
C					
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					

## FOREIGN PATENT DOCUMENTS

	Document Number Country Code-Number-Kind Code	Date MM-YYYY <sup>1</sup>	Country	Name	Classification <sup>2</sup>	
N						
O						
P						
Q						
R						
S						
T						

## NON-PATENT DOCUMENTS

	Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages				
U					
V					
W					
X					

\* A copy of this reference is not being furnished with this Office action. See MPEP § 707.05(a). <sup>1</sup> Dates in MM-YYYY format are publication dates. <sup>2</sup> Classifications may be U.S. or foreign.



<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (use several sheets if necessary) <i>#2</i>	<b>SERIAL NO.:</b>	<b>CASE NO.:</b> LCB 373
	<b>FILING DATE:</b> 07/26/01	<b>GROUP ART UNIT:</b> 2839
	<b>APPLICANT(S):</b> Jed M. Barker, et al.	

11050 U.S. PTO  
09/16/02  
07/26/01

**REFERENCE DESIGNATION      U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
SN	AA	2,427,349	09/16/47	Boynton		
	AB	4,747,020	05/24/88	Brickley et al.		
	AC	5,011,257	04/30/91	Wettengel et al.		
	AD	5,129,842	07/14/92	Morgan et al.		
	AE	5,645,449	07/08/97	Sabo		
	AF	5,676,566	10/14/97	Carlson		
	AG	5,734,776	03/31/98	Puetz		
	AH	5,735,714	04/07/98	Orlando et al.		
	AI	5,945,633	08/31/99	Ott et al.		
SN	AJ	5,947,765	09/07/99	Carlson, Jr. et al.		

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO

<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)</b>		

<b>EXAMINER</b> SON NGUYEN	<b>DATE CONSIDERED</b> 2/20/03
----------------------------	--------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



<b>FORM PTO-14</b> <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b> (use several sheets if necessary)	<b>SERIAL NO.:</b>	<b>CASE NO.:</b> LCB 373
	<b>FILING DATE:</b> 07/26/01	<b>GROUP ART UNIT:</b> 2839
	<b>APPLICANT(S):</b> Jed M. Barker, et al.	

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
SN	AK	5,956,449	09/21/99	Otani et al.		
	AL	5,984,720	11/16/99	Milner et al.		
	AM	6,146,192	11/14/00	Cabalka et al.		
	AN	6,208,796	03/27/01	Williams Vigliaturo		
	AO	6,231,380	05/15/01	Cabalka et al.		
	AP	6,236,795	05/22/01	Rodgers		
	AQ	6,242,698	06/05/01	Baker, III et al.		
SN	AR	Re. 34,955	08/13/96	Anton et al.		
	AS					
	AT					

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)


<b>EXAMINER</b> SN NUTEN	<b>DATE CONSIDERED</b> 2/20/03
--------------------------	--------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,866,541  
DATED : March 15, 2005  
INVENTOR(S) : Jed M. Barker, et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Section (56) References Cited, U.S. Patent Documents, please insert:

6,240,234  
6,350,148

MAILING ADDRESS OF SENDER:

Panduit Corp. Legal Dept.  
17301 South Ridgeland Avenue  
Tinley Park, IL 60477

PATENT NO. 6,866,541

No. of additional copies

➡ 10

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.